

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 34 of 34 returned.**☐ 1. Document ID: US 20030006772 A1

L1: Entry 1 of 34

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030006772  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030006772 A1

TITLE: Asymmetric arrangement of permanent-magnetic elements for a magnetic resonance apparatus

PUBLICATION-DATE: January 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Westphal, Michael	Offenbach		DE	

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw. Desc	Image									

☐ 2. Document ID: US 20020105402 A1

L1: Entry 2 of 34

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105402  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020105402 A1

TITLE: Asymmetric magnets for magnetic resonance imaging

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Crozier, Stuart	Wilston		AU	
Doddrell, David M.	Westlake		AU	
Zhao, Huawei	Brisbane		AU	

US-CL-CURRENT: 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw. Desc	Image									

☐ 3. Document ID: US 6556011 B1

L1: Entry 3 of 34

File: USPT

Apr 29, 2003

US-PAT-NO: 6556011

DOCUMENT-IDENTIFIER: US 6556011 B1

TITLE: Magnetic resonance imaging apparatus

DATE-ISSUED: April 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yui; Masao	Otawara			JP

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 4. Document ID: US 6534984 B2

L1: Entry 4 of 34

File: USPT

Mar 18, 2003

US-PAT-NO: 6534984

DOCUMENT-IDENTIFIER: US 6534984 B2

TITLE: Asymmetric arrangement of permanent-magnetic elements for a magnetic resonance apparatus

DATE-ISSUED: March 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Westphal; Michael	Offenbach			DE

US-CL-CURRENT: 324/318; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 5. Document ID: US 6534982 B1

L1: Entry 5 of 34

File: USPT

Mar 18, 2003

US-PAT-NO: 6534982

DOCUMENT-IDENTIFIER: US 6534982 B1

TITLE: Magnetic resonance scanner with electromagnetic position and orientation tracking device

DATE-ISSUED: March 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakab; Peter D.	Brookline	MA	02146	

US-CL-CURRENT: 324/318; 324/309, 324/322, 600/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

RWC

☐ 6. Document ID: US 6462548 B1

L1: Entry 6 of 34

File: USPT

Oct 8, 2002

US-PAT-NO: 6462548

DOCUMENT-IDENTIFIER: US 6462548 B1

TITLE: Open architecture magnetic resonance superconducting platform magnet conical imaging

DATE-ISSUED: October 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Havens; Timothy John	Florence	SC		

US-CL-CURRENT: 324/318; 324/309, 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

RWC

☐ 7. Document ID: US 6218923 B1

L1: Entry 7 of 34

File: USPT

Apr 17, 2001

US-PAT-NO: 6218923

DOCUMENT-IDENTIFIER: US 6218923 B1

TITLE: Magnet having shielding

DATE-ISSUED: April 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laskaris; Evangelos Trifon	Niskayuna	NY		
Palmo; Michael Anthony	Ballston	NY		
Ogle; Michele Dollar	Burnt Hills	NY		

US-CL-CURRENT: 335/299; 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

RWC

☐ 8. Document ID: US 6215384 B1

L1: Entry 8 of 34

File: USPT

Apr 10, 2001

US-PAT-NO: 6215384

DOCUMENT-IDENTIFIER: US 6215384 B1

TITLE: Magnet including shielding

DATE-ISSUED: April 10, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laskaris; Evangelos Trifon	Niskayuna	NY		
Palmo; Michael Anthony	Ballston Spa	NY		
Ogle; Michele Dollar	Burnt Hills	NY		

US-CL-CURRENT: 335/299; 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 9. Document ID: US 6215383 B1

L1: Entry 9 of 34

File: USPT

Apr 10, 2001

US-PAT-NO: 6215383

DOCUMENT-IDENTIFIER: US 6215383 B1

TITLE: Magnet with shielding

DATE-ISSUED: April 10, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laskaris; Evangelos Trifon	Niskayuna	NY		
Palmo; Michael Anthony	Ballston Spa	NY		
Ogle; Michele Dollar	Burnt Hills	NY		

US-CL-CURRENT: 335/299; 335/216, 335/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 10. Document ID: US 6140900 A

L1: Entry 10 of 34

File: USPT

Oct 31, 2000

US-PAT-NO: 6140900

DOCUMENT-IDENTIFIER: US 6140900 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Assymetric superconducting magnets for magnetic resonance imaging

DATE-ISSUED: October 31, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crozier; Stuart	Brisbane			AU
Doddrell; David M.	Brisbane			AU
Zhao; Huawei	Brisbane			AU

US-CL-CURRENT: 335/299; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 11. Document ID: US 5959454 A

L1: Entry 11 of 34

File: USPT

Sep 28, 1999

US-PAT-NO: 5959454

DOCUMENT-IDENTIFIER: US 5959454 A

TITLE: Magnet arrangement for an NMR tomography system, in particular for skin and surface examinations

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Westphal; Michael	Offenbach			DE
Knuttel; Bertold	Rheinstetten			DE

US-CL-CURRENT: 324/320; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 12. Document ID: US 5864236 A

L1: Entry 12 of 34

File: USPT

Jan 26, 1999

US-PAT-NO: 5864236

DOCUMENT-IDENTIFIER: US 5864236 A

TITLE: Open configuration MRI magnetic flux path

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Andrew	South San Francisco	CA		

US-CL-CURRENT: 324/320; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 13. Document ID: US 5818319 A

L1: Entry 13 of 34

File: USPT

Oct 6, 1998

US-PAT-NO: 5818319

DOCUMENT-IDENTIFIER: US 5818319 A

TITLE: Magnets for magnetic resonance systems

DATE-ISSUED: October 6, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crozier; Stuart	Brisbane			AU
Doddrell; David M.	Brisbane			AU

US-CL-CURRENT: 335/299; 324/319, 335/216, 335/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 14. Document ID: US 5814993 A

L1: Entry 14 of 34

File: USPT

Sep 29, 1998

US-PAT-NO: 5814993

DOCUMENT-IDENTIFIER: US 5814993 A

TITLE: Magnet arrangement for a diagnostic nuclear magnetic resonance apparatus

DATE-ISSUED: September 29, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frese; Georg	Herzogenaurach			DE
Siebold; Horst	Effeltrich			DE

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 15. Document ID: US 5717333 A

L1: Entry 15 of 34

File: USPT

Feb 10, 1998

US-PAT-NO: 5717333

DOCUMENT-IDENTIFIER: US 5717333 A

TITLE: Magnet arrangement for a diagnostic magnetic resonance apparatus

DATE-ISSUED: February 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frese; Georg	Herzogenaurach			DE
Siebold; Horst	Effeltrich			DE

US-CL-CURRENT: 324/319; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 16. Document ID: US 5659281 A

L1: Entry 16 of 34

File: USPT

Aug 19, 1997

US-PAT-NO: 5659281

DOCUMENT-IDENTIFIER: US 5659281 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Structured coil electromagnets for magnetic resonance imaging

DATE-ISSUED: August 19, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pissanetzky; Sergio	The Woodlands	TX		
McIntyre; Peter M.	College Station	TX		

US-CL-CURRENT: 335/296; 324/318, 335/216, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 17. Document ID: US 5623241 A

L1: Entry 17 of 34

File: USPT

Apr 22, 1997

US-PAT-NO: 5623241

DOCUMENT-IDENTIFIER: US 5623241 A

TITLE: Permanent magnetic structure

DATE-ISSUED: April 22, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Minkoff; Lawrence A.	Lattingtown	NY		

US-CL-CURRENT: 335/296; 324/319, 335/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 18. Document ID: US 5585724 A

L1: Entry 18 of 34

File: USPT

Dec 17, 1996

US-PAT-NO: 5585724

DOCUMENT-IDENTIFIER: US 5585724 A

TITLE: Magnetic resonance gradient coils with interstitial gap

DATE-ISSUED: December 17, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morich; Michael A.	Mentor	OH		
Petropoulos; Labros S.	Solon	OH		

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Drawn Desc	Image									

☐ 19. Document ID: US 5382904 A

L1: Entry 19 of 34

File: USPT

Jan 17, 1995

US-PAT-NO: 5382904

DOCUMENT-IDENTIFIER: US 5382904 A

TITLE: Structured coil electromagnets for magnetic resonance imaging and method for fabricating the same

DATE-ISSUED: January 17, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pissanetzky; Sergio	The Woodlands	TX		

US-CL-CURRENT: 324/319; 29/602.1, 324/320, 335/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Drawn Desc	Image									

☐ 20. Document ID: US 5359310 A

L1: Entry 20 of 34

File: USPT

Oct 25, 1994

US-PAT-NO: 5359310

DOCUMENT-IDENTIFIER: US 5359310 A

TITLE: Ultrashort cylindrical shielded electromagnet for magnetic resonance imaging

DATE-ISSUED: October 25, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pissanetzky; Sergio	The Woodlands	TX		

US-CL-CURRENT: 335/301; 324/318, 324/319, 335/216, 335/297, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Drawn Desc	Image									



☐ 21. Document ID: US 5337001 A

L1: Entry 21 of 34

File: USPT

Aug 9, 1994

US-PAT-NO: 5337001

DOCUMENT-IDENTIFIER: US 5337001 A

TITLE: Magnetic field generating assembly

DATE-ISSUED: August 9, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDougall; Ian L.	Oxon			GB2
Armstrong; Alan G. M.	Oxon			GB2
Hawkes; Robert C.	Cambridgeshire			GB2

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 22. Document ID: US 5307016 A

L1: Entry 22 of 34

File: USPT

Apr 26, 1994

US-PAT-NO: 5307016

DOCUMENT-IDENTIFIER: US 5307016 A

TITLE: Magnetic field generating apparatus

DATE-ISSUED: April 26, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDougall; Ian L.	Charlbury			GB3
Hawkes; Robert C.	Cambridge			GB3
Hanley; Peter	Forest of Dean			GB3

US-CL-CURRENT: 324/320; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 23. Document ID: US 5278504 A

L1: Entry 23 of 34

File: USPT

Jan 11, 1994

US-PAT-NO: 5278504

DOCUMENT-IDENTIFIER: US 5278504 A

TITLE: Gradient coil with off center sweet spot for magnetic resonance imaging

DATE-ISSUED: January 11, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patrick; John L.	Chagrin Falls	OH		
Morich; Michael A.	Mentor	OH		
Petropoulos; Labros	Cleveland Hts.	OH		
Hajnal; J. V.	London			GB2
Hall; A. S.	Middlesex			GB2

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KMC

☐ 24. Document ID: US 5256970 A

L1: Entry 24 of 34

File: USPT

Oct 26, 1993

US-PAT-NO: 5256970

DOCUMENT-IDENTIFIER: US 5256970 A

TITLE: Magnetic resonance apparatus

DATE-ISSUED: October 26, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ham; Cornelis L. G.	Eindhoven			NL
Mens; Wilhelmus R. M.	Eindhoven			NL

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KMC

☐ 25. Document ID: US 5168211 A

L1: Entry 25 of 34

File: USPT

Dec 1, 1992

US-PAT-NO: 5168211

DOCUMENT-IDENTIFIER: US 5168211 A

TITLE: Magnet system

DATE-ISSUED: December 1, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laukien; Gunther	Rheinstetten			DE
Westphal; Michael	Offenbach			DE

US-CL-CURRENT: 324/319; 324/320, 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KMC

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☐ 26. Document ID: US 4985679 A

L1: Entry 26 of 34

File: USPT

Jan 15, 1991

US-PAT-NO: 4985679

DOCUMENT-IDENTIFIER: US 4985679 A

TITLE: Magnet assembly

DATE-ISSUED: January 15, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDougall; Ian L.	Oxford			GB

US-CL-CURRENT: 324/318; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

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☐ 27. Document ID: US 4812797 A

L1: Entry 27 of 34

File: USPT

Mar 14, 1989

US-PAT-NO: 4812797

DOCUMENT-IDENTIFIER: US 4812797 A

TITLE: Compensation coil for temporal drift of a superconducting magnet

DATE-ISSUED: March 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jayakumar; Raghavan	Florence	SC		

US-CL-CURRENT: 335/299; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

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☐ 28. Document ID: US 4788502 A

L1: Entry 28 of 34

File: USPT

Nov 29, 1988

US-PAT-NO: 4788502

DOCUMENT-IDENTIFIER: US 4788502 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apparatus for compensating for time-vibrant field interference in magnetic fields

DATE-ISSUED: November 29, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keller; Anton W.	D-7512 Rheinstetten			DE
Tschopp; Werner H.	CH-8127 Forch			CH
Kuster; Anton	CH-8606 Greifensee			CH

US-CL-CURRENT: 324/318; 335/299

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 29. Document ID: US 4768009 A

L1: Entry 29 of 34

File: USPT

Aug 30, 1988

US-PAT-NO: 4768009

DOCUMENT-IDENTIFIER: US 4768009 A

TITLE: Coil arrangement for correction of magnetic field

DATE-ISSUED: August 30, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shimada; Mamoru	Yokohama			JP

US-CL-CURRENT: 335/299; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 30. Document ID: US 4689591 A

L1: Entry 30 of 34

File: USPT

Aug 25, 1987

US-PAT-NO: 4689591

DOCUMENT-IDENTIFIER: US 4689591 A

TITLE: Magnet assemblies for use in magnetic resonance imaging

DATE-ISSUED: August 25, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McDougall; Ian L.	Oxford			GB2

US-CL-CURRENT: 335/299; 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 31. Document ID: WO 9321645 A1 US 5659281 A US 5359310 A EP 636274 A1 US 5382904 A JP 07508857 W EP 636274 A4

L1: Entry 31 of 34

File: DWPI

Oct 28, 1993

DERWENT-ACC-NO: 1993-351971  
DERWENT-WEEK: 199739  
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TITLE: DC electromagnet for magnetic resonance imaging tomography - uses number of superconductive coils encircling bore and having irregular cross-section and being cylindrically symmetric to produce uniform DC magnetic field.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Clip Img	Image								

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☐ 32. Document ID: SU 1771841 A1

L1: Entry 32 of 34

File: DWPI

Oct 30, 1992

DERWENT-ACC-NO: 1993-344285  
DERWENT-WEEK: 199343  
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TITLE: Perpendicular contact stress determ. during rolling - by measurement of rolling force and contact area during clamping of metal by rollers and calculation of contact stress

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Image									

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☐ 33. Document ID: WO 9117454 A DE 69121095 E EP 526514 A1 JP 05507005 W US 5337001 A EP 526514 B1

L1: Entry 33 of 34

File: DWPI

Nov 14, 1991

DERWENT-ACC-NO: 1991-353920  
DERWENT-WEEK: 199640  
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TITLE: NMR primary, homogeneous, working region field - has specimen access in direction transverse to flux, and gradient field generators movable relative to prim. field generator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Drawn Desc	Clip Img	Image								

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☐ 34. Document ID: EP 187691 A DE 3675023 G EP 187691 B JP 61168904 A US 4689591 A

L1: Entry 34 of 34

File: DWPI

Jul 16, 1986

DERWENT-ACC-NO: 1986-184591  
DERWENT-WEEK: 198629  
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TITLE: Magnetic resonance imaging appts. magnet assembly - produces homogeneous region centred axially outwardly of assembly between latter and adjacent magnetic mirror

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

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Term	Documents
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<u>L18</u>	L17 and (move or moving or moved or movement or motion)	90	<u>L18</u>
<u>L17</u>	L16 and (gradient)	90	<u>L17</u>
<u>L16</u>	L15 and (static\$5 or uniform\$6 or main or homogeneous or homogeneity)	105	<u>L16</u>
<u>L15</u>	L14 and (center\$4 or iso-center\$4 or isocenter\$4 or align\$6)	119	<u>L15</u>
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<u>L13</u>	L12 and (FOV or "field of view" or field-of-view or (imaging with (region or volume or area or zone)))	270	<u>L13</u>
<u>L12</u>	L11 and (((new or another or second) with (position\$4 or locat\$4 or orient\$8)) or (reposition\$4 or relocat\$4 or reorient\$8 or re-position\$4 or re-locat\$4 or re-orient\$8))	499	<u>L12</u>
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<u>L8</u>	L7 and (patient or subject or object)	1860	<u>L8</u>
<u>L7</u>	L6 and ((shift\$4 or difference or chang\$4) with (position\$4 or locat\$4 or orient\$8))	1954	<u>L7</u>
<u>L6</u>	L5 and (position\$4 or locat\$4 or orient\$8)	5916	<u>L6</u>
<u>L5</u>	L4 and (fast or (high with speed) or rapid\$3)	6815	<u>L5</u>
<u>L4</u>	L3 and (automatic\$7 or auto-matic\$7)	10854	<u>L4</u>
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<u>L1</u>	4689591	34	<u>L1</u>

END OF SEARCH HISTORY